

CLAIMS

What is claimed is:

1. A system comprising:

A television having a screen;

A set-top box coupled to the television, the set-top box including:

A receiver;

A processor coupled to the receiver to receive signals as received and translated
by the receiver;

A video controller coupled to the processor and coupled to the television, the
video controller to receive commands from the processor and translate those
commands to signals, the signals sent to the television to control the screen; and

A remote control, the remote control including:

A housing having an aperture;

A sensor within the housing, coupled to the housing at a location within an
optical path from the aperture;

A microcontroller electrically coupled to the sensor and coupled to the housing;

and

A transmitter electrically coupled to the microcontroller and coupled to the
housing.

2. A method of manipulating a cursor on a tv screen utilizing a wireless remote
control comprising:

3 Detecting a location on the screen pointed to by the remote control; and
4 Transmitting the location to a set-top box.

1 3. The method of claim 2 further comprising:
2 Displaying a cursor at the location.

1 4. The method of claim 3 further comprising:
2 Moving the remote control to a position pointing to a new location on the screen;
3 Detecting the new location; and
4 Transmitting the new location to the set-top box.

1 5. The method of claim 2 further comprising:
2 Moving the remote control to a position pointing to a new location on the screen;
3 Detecting the new location; and
4 Transmitting the new location to the set-top box.

1 6. The method of claim 4 further comprising:
2 Displaying the cursor at the new location.

1 7. A method of manipulating a cursor on a tv screen utilizing a wireless remote
2 control comprising:
3 Receiving a grab of the cursor, the cursor pointed to by the wireless remote
4 control;

5 Transmitting an indication of the grab to a set-top box coupled to the tv screen;
6 Receiving an indication of motion of the remote control;
7 And
8 Transmitting the indication of motion of the remote control to the set-top box.

1 8. The method of claim 7 further comprising:
2 Displaying the cursor at a location determined based on the indication of motion
3 of the remote control.

1 9. The method of claim 8 wherein:
2 The indication of motion is an indication that a sector boundary has been
3 crossed.

1 10. The method of claim 8 wherein:
2 The indication of motion is an indication of a location pointed to by the remote
3 control different from a location of the cursor when the indication of the grab was
4 transmitted.

1 11. A remote control device comprising:
2 A housing having an aperture;
3 A sensor within the housing, coupled to the housing at a location within an
4 optical path from the aperture;

5 A microcontroller electrically coupled to the sensor and coupled to the housing;
6 and
7 A transmitter electrically coupled to the microcontroller and coupled to the
8 housing.

1 12. The remote control device of claim 11 wherein:

2 The transmitter is an infrared transmitter.

1 13. The remote control device of claim 11, further comprising:

2 A semi-mirror coupled to the housing and disposed within the optical path from
3 the aperture between the aperture and the sensor;

4 And

5 A light source coupled to the housing and disposed in a position relative to the
6 semi-mirror suitable for emitting a light beam targeted at the semi-mirror which, upon
7 reflection by the semi-mirror, follows the optical path from the semi-mirror to the
8 aperture.

1 14. The remote control device of claim 13, further comprising:

2 A first focus element disposed in the optical path between the semi-mirror and
3 the aperture.

1 15. The remote control device of claim 14, further comprising:

2 A second focus element disposed in the optical path between the semi-mirror
3 and the first focus element.

1 16. The remote control device of claim 15 wherein:

2 The light source is a laser LED;

3 The first focus element is a blind; and

4 The second focus element is a blind.